

SECTION 10161 - LAMINATED PLASTIC, SOLID PLASTIC AND
PHENOLIC PLASTIC TOILET PARTITIONS AND
URINAL SCREENS

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

As specified in Section 00700.

1.02 WORK DESCRIPTION

Work under this section shall include but not be limited to the following:

Floor and wall anchored laminated plastic, solid plastic and phenolic laminated plastic toilet compartment doors and partitions and urinal screens.

Specify toilet paper holders under "Toilet Accessories" in Specialties Section. Specify folded-paper type for schools. Handicap Accessible stalls shall be provided with roll-type dispensers.

1.03 COORDINATION WITH OTHER SECTIONS

Coordinate the installation of doors and partitions with grab bars, toilet tissue dispensers, sanitary napkin disposal receptacles, etc. noted under Section 10800 - TOILET AND BATH ACCESSORIES.

1.04 REFERENCES

The publications listed below form a part of this specification:

- A. Americans with Disabilities Act (ADA) Accessibility Guidelines, 36 C.R.F. Pt. 1191.
- B. Children's Design Guidelines prepared by the State of Hawaii Architectural Access Committee.
- C. National Electrical Manufacturers Association Standards LD 3.1 - Performance, Application, Fabrication, and Installation of High-Pressure Decorative Laminates.
- D. American Society for Testing and Materials (ASTM) E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

Delete either paragraph "A" or "B" if it does not apply to your project. Also amend paragraph 1.05 B below.

1.05 GENERAL REQUIREMENTS

- A. The contractor shall visit the job site to verify the site conditions and dimensions prior to submitting his bid.
- B. Toilet compartments which are accessible to the physically handicapped shall be in conformance with the criteria noted in the Americans with Disabilities Act (ADA) Accessibility Guidelines

Delete for new projects.

and the Children's Design Guidelines.

1.06 SUBMITTALS

The contractor shall submit the following to the Engineer:

- A. 4 sets of laminated plastic, solid plastic or phenolic plastic samples for color selection.
- B. 3 sets of the proposed (selected) manufacturer's current brochures, specifications and shop drawings showing construction and installation details. Drawings shall indicate the elevations of partitions/screens, hardware, fittings, mounting brackets, proposed method of anchoring, and other related items and installation details.
- C. Manufacturer's certificate attesting that his materials meet or exceed the specified requirements.

1.07 PRODUCT HANDLING

- A. Materials shall be delivered to the job-site in their original sealed containers bearing the name of the manufacturer and brand designation.
- B. Items shall be delivered and stored in a manner that ensures they will be protected against damage.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The products of the following manufacturers are acceptable provided they meet the materials and construction specified and are installed as specified hereinafter:

- 1. Ampco Products Inc.
(Laminated Plastic & Phenolic Plastic)
- 2. Accurate Partitions Corp.
(Laminated Plastic & Phenolic Plastic)
- 3. Bobrick Washroom Equipment, Inc.
(Phenolic Plastic)
- 4. Capitol Partitions, Inc.
(Phenolic Plastic & Solid Plastic)
- 5. Columbia Partitions, Inc.
(Phenolic Plastic)

Delete manufacturers and partition types which are not applicable to your project.

Laminated plastic partitions shall be used only in Elementary Schools and within Staff Toilets. (Note: Ensure plywood core is provided under shop dwg. submittal.) Solid Plastic and Phenolic Plastic may also be used.

Solid Plastic & Phenolic Plastic partitions shall be used in Intermediate and High Schools.

NOTES TO ARCHITECT

6. Comtec Industries, Inc.
(**Solid** Plastic)
 7. DesignRite Partitions
(Phenolic Plastic)
 8. Flush Metal Partition Corp.
(Laminated Plastic & Phenolic Plastic)
 9. Gamco
(Phenolic Plastic)
 10. General Partitions Manufacturing Corp.
(Phenolic Plastic)
 11. Global Steel Products Corp.
(Laminated Plastic & Phenolic Plastic)
 12. Knickerbocker Case Corp., Inc.
(Laminated Plastic & Phenolic Plastic)
 13. Pioneer Plastics Corporation
(Phenolic Plastic)
 14. Metpar Steel Products Corp.
(Phenolic Plastic)
 15. Sanymetal Products Co.
(Phenolic Plastic)
 16. Weis / Robart Partitions, Inc.
(Phenolic Plastic)
- B. The products of other manufacturers are acceptable provided they meet or exceed the material and construction requirements specified hereinafter and are prequalified.

Add'n of Comtec, Ind.
Inc incorporates
guidance noted under
Tech Memo #98 dated May
16, 1994.

2.02 MATERIALS AND CONSTRUCTION

- A. General: Compartments shall be of the type and size specified and as shown on the plans.
- B. Laminated Plastic Doors, Partitions, Stiles and Pilasters:
1. Shall consist of min. 0.050" thick laminated plastic bonded under pressure to all surfaces and edges of a core of exterior A-B grade plywood in accordance with NEMA standards.

Delete those partition types which do not apply to your job. See para. 2.01 Notes to Architect above regarding selection of partition types.

Detail type of partition and show dimensions on plans. (Ceiling-hung type shall not be used.)

2. Plastic Laminate shall have a Class A or B Flame Spread Rating and a maximum Smoke Developed Rating of 450 in conformance with ASTM E 84.
3. Moisture and fungus resistant, thermo-setting adhesives shall be used. Contact cements shall not be permitted.
4. Joints in the plastic laminate shall be carefully sealed to ensure watertightness.

C. Solid Plastic Doors, Partitions, Stiles and Pilasters:

1. Shall be fabricated from polymer resins formed under high pressure into a single component section which is waterproof and non-absorbent. The color shall extend from the surface through the entire thickness of the panel.
2. The exposed finish surfaces shall be self-lubricating; smooth; waterproof; non-absorbent; stain, chemical and graffiti resistant.
3. Solid plastic shall have a Class A or B Flame Spread Rating and a maximum Smoke Developed Rating of 450 in conformance with ASTM E 84.
4. Edges shall be machined to a radius of 1/16" min. and shall be free of saw marks.

D. Phenolic Plastic Doors, Partitions, Stiles and Pilasters:

1. Shall be fabricated with a solid phenolic core of multiple resin-impregnated kraft paper sheets with a matte finish melamine surface fused under high temperature and pressure.
2. The exposed finish surfaces shall be self-lubricating; smooth; waterproof; non-absorbent; stain, chemical and graffiti resistant.
3. Phenolic Plastic shall have a Class A or B Flame Spread Rating and a maximum Smoke Developed Rating of 450 in conformance with

ASTM E 84.

4. Edges shall be machined smoothed with 1/16" radius corners.

E. Doors:

1. Laminated plastic doors shall be a minimum of 7/8" thick.
2. As an alternative, doors may be of solid plastic a minimum of 1" thick or phenolic plastic a minimum of 3/4" thick.
3. Unless otherwise noted on the drawings, a minimum clear door opening width of 32" shall be provided at the door leading to a handicap accessible toilet stall. This clear width shall be measured between the edge of the door bumper/keeper and the face of the door when opened 90 degrees.

F. Partitions, Stiles and Pilasters:

1. Laminated plastic partitions shall be a minimum of 7/8" thick. Stiles and pilasters shall be a minimum of 1-1/4" thick unless supplied with a steel reinforced core.
2. Pilasters and stiles for overhead-braced compartments shall have adjustable floor anchors with leveling devices, studs, and locking nuts to firmly secure pilasters and stiles to the floor.
3. As an alternative, partitions, stiles and pilasters may be of solid plastic a minimum of 1" thick or phenolic plastic having partitions a minimum of 1/2" thick and stiles and pilasters a minimum of 3/4" thick.
4. Partitions to which grab bars are fastened, along with their respective brackets and connectors, shall be capable of supporting the imposed loads noted in the UFAS.

G. Headrails:

1. Headrails for overhead-braced compartments shall be of anodized, extruded aluminum alloy with end-caps, of anti-grip design or as standard with the manufacturer; or solid wood core surfaced with plastic laminate and

NOTES TO ARCHITECT

having minimum cross-sectional dimensions of
1-1/4 in. x 2 in.

H. Urinal Screens:

Delete when urinal
screens are not
provided.

1. Shall be of the types and sizes shown on plans.
2. Laminated plastic screens shall be a minimum of 7/8" thick.
3. As an alternative, screens may be of solid plastic a minimum of 1" thick or phenolic plastic a minimum of 3/4" thick for wall-hung installations. Where screens are supported on two sides, solid plastic screens shall be a minimum of 1" thick and phenolic plastic a minimum of 1/2" thick.

I. Hardware and Fittings:

1. Doors, partitions, pilasters and screens shall be furnished with the necessary hardware and fittings to provide a complete installation. They shall be pre-cut to facilitate erection and minimize field errors.
2. Materials: Hardware and fittings shall be either satin-finish stainless steel, anodized extruded aluminum or chrome plated brass. Non-ferrous alloys such as Zamac castings shall not be used.
3. Door hinges: Either spring or cam-action type and adjustable to hold the door open about 12 inches in a pre-set position. All parts shall be non-rusting such as stainless steel pintles; nylon or delrin cams; nylon, delrin or self-lubricating bronze bushings; and housings of anodized extruded aluminum alloy or satin-finish stainless steel.
4. Latches: The latch shall be of a shape which is easy to grasp with one hand and which does not require tight grasping, tight pinching or twisting of the wrist to operate and shall be operable by a person on the outside in the

Refer to Technical
Memorandum #63 regarding
the provision of
continuous heavy duty
brackets and hinges at
Intermediate and High
Schools where partitions
will be subject to high
abuse.

NOTES TO ARCHITECT

event of an emergency. Mechanisms such as slide bolts with a projecting handle on the inside of the stall which can be opened by a person on the outside reaching over the door with a stick are acceptable.

5. Door Pulls: Handicap accessible toilet stall doors shall be furnished with a grab bar/door pull, 18" long, mounted horizontally on the inside face of the door adjacent to the hinge to facilitate closing of the door upon entry.
6. Coat Hook/Door Bumper: Furnish one each per door.
7. Shoe: All pilasters and stiles shall have a 3 inch high minimum trim cover or shoe of Type 302 or 304 stainless steel, chrome plated brass or anodized extruded aluminum at the floor.
8. Hardware mounting heights: The highest part of any handle, pull, grab bar, latch or operating mechanism shall be at 36 inches max. above the finished floor.
9. Fasteners: Hardware and fittings shall be fastened with theft-resistant one-way stainless steel or chrome plated brass through-bolts or machine screws in factory installed steel inserts.

PART 3 - EXECUTION

3.01 INSPECTION

The Installer together with the Contractor and Engineer shall examine the areas and conditions under which toilet stall doors, partitions, stiles/pilasters and screens are to be installed. Should any condition be found unsuitable, no work shall be performed until the unsatisfactory conditions have been corrected and are acceptable to the Installer. Proceeding with the work will imply acceptance of the conditions by the Installer.

3.02 INSTALLATION

NOTES TO ARCHITECT

- A. Compartments and urinal screens shall be erected in strict accordance with the manufacturer's instructions.
- B. All parts shall be securely screwed and/or bolted tight, well-anchored to the wall, true to line, level and plumb, with doors and hardware placed at the proper heights and in proper operating condition.

- C. The following uniform clearances shall be provided:

- 1. 1/2" max. between the stiles/pilasters and partitions.
- 2. 1" max. between stiles/pilasters/partitions and walls.
- 3. 3/16" max. between stiles/pilasters and doors.

Indicate the clearances required below doors and partitions on the drawings.

- D. Anchorage to concrete or to masonry at grouted cells shall be bolts with lead or steel expansion shields. Anchorage to masonry at ungrouted cells or to gypsum board walls shall be with toggle bolts.

Indicate blocking / nailers as required at stud walls on the drawings.

3.03 PROTECTION AND CLEANING

- A. Protect the work of other trades against damage, injury or soiling.
- B. After installation, clean exposed surfaces with cleaners recommended and approved by the manufacturer and protect from damage.
- C. Adjust hardware and lubricate moving parts as necessary to ensure smooth operation.
- D. Repair and restore adjacent surfaces that are marred or damaged as a result of the installation of toilet partitions and urinal screens to their original condition. Leave adjacent surfaces in a neat and clean condition.

END OF SECTION

NOTES TO ARCHITECT